Year 6: Light Knowledge Mat

Subject Specific Vocabulary			Sticky Knowledge about Light
light wave	One of the characteristics of light is that it behaves like a wave. Light can be defined by its wavelength and frequency. The frequency is how fast the waves vibrate up and down.	IIIIII in the second se	 Light will travel in a completely straight line until it hits an object that will reflect it. Space does not have any light. We
light source	Light, or illumination, is a form of energy that travels in waves, like sound. You can find different sources of light, such as a candle or the sun.		can see things in space due to light bouncing off of the objects in space.
		Working Scientifically	Light doesn't travel as fast when it has to pass through mediums that are
concave	Is a lens that curves inwards and reflects light differently as a result.	 *planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. *taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. *recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. *using test results to make predictions to set up further comparative and fair tests *identifying scientific evidence that has been used to support or refute ideas or arguments 	different, such as air, water or glass.
convex	Is a lens that curves outwards and reflects light differently as a result.		
filters	A filter is a transparent material that absorbs some colours and allows others to pass through.		The light that we see from the sun actually left the sun ten minutes before we see it.
lens	A lens is a curved piece of glass or plastic designed to refract light in a specific way.		Light can be controlled and produced in so many ways. A camera can control the amount of light that comes into the camera lens. We also use light in televisions, medical systems, copy machines, telescopes and satellites.
retina	The retina is at the back of your eye and it has light- sensitive cells called rods and cones.		
cornea	The cornea is thin, clear and covers your eye. It's important because it helps you see by focusing light as it enters the eye.		 Light is used by plants to convert the light into energy as their 'food'. The process is called 'photosynthesis' and converts carbon dioxide through the energy of the light.
iris	By opening and closing the pupil, the iris can control the amount of light that enters the eye.		
pupil	The pupil can be compared with the shutter of a camera. It is surrounded by the iris which is the coloured part of the eye.	anterior chamber aqueous humor optic nerve	
		suspensory ligaments	